

Application No.: 10/073101

Docket No.: BTW-029

AMENDMENTS TO THE CLAIMS

1. (previously presented) An integrated optical circuit comprising:
an input waveguide;
an imaging multimode interference device adapted to substantially remove all modes but a fundamental mode of an optical signal received from said input waveguide; and
an optical power splitter structure in optical communication with said imaging multimode interference device;
wherein said multimode interference device includes a primary output in optical communication with said optical power splitter structure and a secondary output in optical communication with a dump port.
- 2-4. (canceled)
5. (previously presented) A method for suppressing propagating lateral waveguide field oscillations at the input of an optical power splitter structure comprising,
fabricating an imaging multimode interference device in optical communication with said optical power splitter structure, wherein said multimode interference device includes a primary output in optical communication with said optical power splitter structure and a secondary output in optical communication with a dump port; and
receiving an error signal from said dump port and monitoring said error signal for a substantial change.
6. (canceled)
7. (previously presented) The method of claim 5 wherein said optical power splitter structure is a component of an interferometric modulator.
8. (original) The method of claim 7 wherein said interferometric modulator is a Mach-Zehnder modulator.
- 9-10. (canceled)

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11. (previously presented) An integrated optical circuit comprising:
a waveguide device;
an angled output, the angle of which is non-perpendicular with respect to the direction of optical propagation;
an imaging multimode interference device between said waveguide device and said angled output; and
an angled input, the angle of which is non-perpendicular with respect to the direction of optical propagation, and said imaging multimode interference device is a first imaging multimode interference device and said integrated optical circuit further comprises a second imaging multimode interference device between said wave guide device and said angled input, the first and second imaging multimode interference devices adapted to substantially remove all modes but a fundamental mode of an optical signal received by the devices.

12-15. (canceled)

16. (canceled)

17. (previously presented) The optical circuit of claim 1, wherein said multimode interference device includes two said secondary outputs, each of which is in optical communication with a respective said dump port.

18. (previously presented) The method of claim 5, wherein said multimode interference device includes two said secondary outputs, each of which is in optical communication with a respective said dump port, said method further comprising receiving an error signal from each of said dump ports and monitoring said error signal for a substantial change.

19. (original) The integrated optical circuit of claim 11 wherein the waveguide device comprises a semiconductor optical amplifier.